From: Enders, Jhana
To: Bojes Heidi

Cc: <u>Joseph.Haney@tceq.texas.gov</u>; <u>Turner, Philip</u>; <u>Ojeda Jose</u>

Subject: Fwd: Detection Limit - Dräger & VRAE

Date: Tuesday, January 10, 2017 11:37:39 PM

FYI per meeting request

Jhana Enders
Federal On Scene Coordinator (FOSC)
214-789-9654

Sent from my iPad

Begin forwarded message:

From: "Ojeda, Jose" < <u>Jose.Ojeda@WestonSolutions.com</u>>

Date: January 10, 2017 at 5:58:23 PM CST **To:** "Enders, Jhana" < <u>Enders.Jhana@epa.gov</u>> **Subject: Detection Limit - Dräger & VRAE**

The detection limit is defined as the minimum concentration of a substance that can be measured and reported. The Dräger tube pump, utilizing a Phosphine specific tube, has a detection limit (minimum concentration that can be measured) of 0.1 ppm for Phosphine. If the concentration of Phosphine is less than 0.1 ppm (< 0.1 ppm), the Dräger tube pump will not detect Phosphine. The measuring range for Phosphine utilizing the Dräger tube pump is 0.1 ppm to 1.0 ppm.

The VRAE has a detection limit (minimum concentration that can be measured) of 0.1 ppm for Phosphine, utilizing a Phosphine specific sensor. If the concentration of Phosphine is less than 0.1 ppm (< 0.1 ppm), the VRAE screen will only display a reading of 0.0 ppm. A 0.0 ppm reading means the concentration of Phosphine is less than the detection limit. The measuring range for Phosphine on the VRAE, utilizing a Phosphine specific sensor, is 0.1 ppm to 20 ppm.



José L. Ojeda

Senior Project Leader – START

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